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EXPERIMENT STATION FILE.

UNITED STATES DEPARTMENT OF AGRICULTURE,
FOREST SERVICE.

HENRY S. GRAVES, Forester.

July Field Program, 1919.

This program of field-work assignments in the Forest Service is issued quarterly, on the 15th day of July, October, January, and April, and is for the exclusive use of members of the Service and cooperating bureaus. The names of members whose assignments are not yet fixed are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

OFFICE OF THE FORESTER.

HENRY S. GRAVES, Forester.

ALBERT F. POTTER, Associate Forester.

WILLIAM L. HALL, Assistant Forester.

E. A. SHERMAN, Assistant Forester.

D. D. BRONSON, forest inspector.

G. G. ANDERSON, assistant to the Forester.

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SUPPLIES.—S. L. McLAURIN, property clerk.

EDITOR.—HERBERT A. SMITH.

INFORMATION.—PAUL D. KELLETER.

TECHNICAL REVIEW.—L. C. EVERARD.

PROOFS AND FORMS.—C. M. BALLARD.

DENDROLOGY.—GEORGE B. SUDWORTH, dendrologist.

ACCOUNTS.—M. E. FAGAN, chief.

SUPPLY DEPOT, OGDEN, UTAH.—A. H. COUSINS, property assistant.

PROPERTY AUDIT, OGDEN, UTAH.—J. G. FALCK, property auditor.

SILVICULTURE.

E. E. CARTER, forest inspector, in charge; R. Y. STUART, and CLINTON G. SMITH, forest inspectors; HARRY IRION, office assistant.

STATE COOPERATION.—J. G. PETERS, chief.

Inspection.—L. S. Murphy, J. A. Mitchell.

Compilation of State forest laws.—Miss J. S. Peyton.

State cooperative fire protection under the Weeks law.—F. H. Colby, land agent and forest commissioner, Augusta, Me.; E. C. Hirst, State forester, Concord, N. H.; W. G. Hastings, chief forester, Montpelier, Vt.; F. W. Rane, State forester, Boston, Mass.; J. B. Mowry, commissioner of forestry, Chepachet, R. I.; W. O. Filley, State forester, New Haven, Conn.; W. G. Howard, assistant superintendent of forests, Albany, N. Y.; C. P. Wilber, State fire warden, Trenton, N. J.; F. W. Besley, State forester, Baltimore, Md.; R. C. Jones, State forester, Charlottesville, Va.; C. W. Brandon, forest, game, and fish warden, Philippi, W. Va.; J. S. Holmes, State forester, Chapel Hill, N. C.; J. E. Barton, commissioner of forestry and geology, Frankfort, Ky.; R. D. Forbes, superintendent of forestry, New Orleans, La.; E. O. Siecke, State forester, College Station, Tex.; W. J. Pearson, chief forest fire warden, Boyne Falls, Mich.; C. L. Harrington, conservation commissioner, Madison, Wis.; Wm. T. Cox, State forester, St. Paul, Minn.; ———, State forester, Custer, S. Dak.; J. C. Van Hook, State forester, Helena, Mont.; I. H. Nash, State land commissioner, Boise, Idaho; F. A. Elliott, State forester, Salem, Oreg.; F. E. Pape, State forester and fire warden, Olympia, Wash.; G. M. Homans, State forester, Sacramento, Calif.

COOPERATION WITH PRIVATE TIMBERLAND OWNERS.—A. CARY, in charge.

GRAZING.

WILL C. BARNES, assistant forester, in charge; J. W. NELSON, inspector of grazing.

GRAZING STUDIES (in cooperation with F. V. COVILLE, botanist, Bureau of Plant Industry).—JAMES T. JARDINE, inspector of grazing, in charge.

Forage investigations.—William A. Dayton, plant ecologist, Washington, D. C.

Goat range study.—William R. Chapline, grazing examiner, Washington, D. C.

Range reserve experiments.—Jornada Reserve: Clarence L. Forsling, grazing examiner, in charge, Las Cruces, N. Mex. Santa Rita Reserve: R. R. Hill, grazing examiner, in charge, Tucson, Ariz.

LANDS.

E. A. SHERMAN, assistant forester in charge; C. H. SQUIRE, inspector of lands; W. J. MANGAN, examiner.

CLAIMS AND OCCUPANCY.—C. H. SQUIRE, in charge.

LAND CLASSIFICATION.—JOHN D. JONES, in charge.

SETTLEMENT.—F. L. HARVEY, in charge.

BOUNDARIES AND ENTRY SURVEYS.—R. V. REYNOLDS, in charge.

STATUS.—J. B. SATTERLEE, J. E. BURCH.

RESEARCH.

EARLE H. CLAPP, assistant forester in charge; S. T. DANA; FRANKLIN H. SMITH, A. H. PIERSON; A. B. STROUGH, collaborator, Albany, N. Y.; STANLEY L. WOLFE; HARRY IRION, office assistant.

FOREST INVESTIGATIONS.—RAPHAEL ZON, chief.

Studies.—C. R. Tillotson, W. D. Sterrett, W. N. Sparhawk, E. R. Hodson, E. H. Frothingham; A. F. Hawes and W. R. Mattoon (in cooperation with the States Relations Service); Willis Munro (in cooperation with the Bureau of Entomology).

FOREST DISTRIBUTION.—W. H. LAMB, in charge; Miss G. E. Wharton.

FOREST MEASUREMENTS.—W. B. BARROWS.

LIBRARY.—Miss H. E. STOCKBRIDGE.

COMPILATION.—Miss E. B. LEECH.

Cloquet Experiment Station in cooperation with the University of Minnesota.—W. H. Kenety, Cloquet, Minn.

FOREST PRODUCTS LABORATORY (in cooperation with the University of Wisconsin, Madison, Wis.).—CARLILE P. WINSLOW, director; O. M. BUTLER, assistant director; H. D. Tiemann, dry-kiln specialist; P. R. Hicks, engineer in forest products.

Publication of Results.—Rolf Thelen, acting, in charge; Ray C. Tuttle.

DERIVED PRODUCTS.—L. F. HAWLEY, in charge; Ernest Bateman, Samuel A. Mahood, E. C. Sherrard, Howard N. Calderwood, G. W. Blanco, D. E. Cable, George G. Town.

PULP AND PAPER.—OTTO KRESS, in charge; Sidney D. Wells, V. P. Edwardes, C. L. Bachelder, John A. Mitchell.

TIMBER MECHANICS.—J. A. NEWLIN, in charge; L. J. Markwardt, T. R. C. Wilson, J. S. Mathewson, G. E. Heck, Armin Elmendorf, H. S. Grenoble, R. Crane, R. P. A. Johnson, R. F. Luxford, C. A. Plaskett, J. R. Watkins, L. A. Welo, R. M. Wirka, H. D. Frary, C. B. Norris, John M. Gahagan.

Box Tests.————, in charge; J. B. Frear, L. P. Elliott.

TIMBER PHYSICS.—ROLF THELEN, in charge; C. V. Sweet, A. Koehler, Miss Eloise Gerry, M. C. Jensen, Lawrence V. Teesdale, D. R. Brewster, Nils B. Eckbo, Miss Gertrude Griffin.

WOOD PRESERVATION.—CLYDE H. TEESDALE, in charge; George M. Hunt, Matthew E. Dunlap, Shirley W. Allen, Alfred C. Lindauer, Frederick L. Browne, T. R. Truax, R. A. Colgan, Clarence Coye, J. D. MacLean, Robt. B. Lebo.

Propeller Tests.—A. L. Heim, in charge; A. C. Knauss, Louis Seutter, Carl A. Menzel.

LUMBER STUDIES.———, in charge; D. G. White.

PATHOLOGY (in cooperation with Bureau of Plant Industry).—C. J. HUMPHREY, in charge; Miss C. Audrey Richards.

LABORATORY OPERATION.—J. D. DEIHL, administrative assistant; Charles P. Juckem, executive clerk.

Accounts.—Oscar M. Wold, fiscal agent.

Engineering.—B. L. Nelson, assistant engineer in forest products.

Photography.—M. E. Diemer, chemist in forest products.

Computing.—H. T. Burgess, computing specialist.

Library.—Miss S. D. Kinney.

FOREST PRODUCTS.—H. S. BETTS, in charge; W. D. Brush, H. P. Burden, J. D. Harris, R. K. Helpenstine, jr.

ENGINEERING.

O. C. MERRILL, chief engineer; T. W. NORCROSS, assistant chief engineer.

ROADS.—T. W. NORCROSS, in charge; JOHN L. COBBS, forest examiner.

WATER POWER.—RALPH R. RANDELL, assistant engineer, in charge.

MAPS AND SURVEYS.—F. E. BONNER, assistant engineer, in charge; C. A. KOLB, geographer.

Atlas.—G. B. BRUCE.

Drafting.—J. M. WITHEROW.

Engraving.—T. S. BROCK.

Photography.—E. S. SHIPP.

ACQUISITION OF LANDS UNDER THE WEEKS LAW.

WILLIAM L. HALL, assistant forester in charge.

APPRAISAL OF LANDS.—W. W. ASHE, forest inspector in charge, Washington, D. C. Lumberman's examinations: E. D. Fletcher, Gorham, N. H. Forest examiners: White Mountain Area, H. S. Davis and party, Gorham, N. H.; Shenandoah Area, S. H. Thompson and party, Harrisonburg, Va.; Natural Bridge, Massanutten, and Potomac Areas, H. M. Sears and party, Buena Vista, Va.; Boone and Mount Mitchell Areas, W. J. Damtoft and party, Asheville, N. C.; Savannah Area, E. J. Mead,

Franklin, N. C.; Georgia Area, C. E. Beaumont and party, Athens, Tenn.; Alabama Area, B. M. Lufburrow, forest ranger (in charge of party), Moulton, Ala.; Ozark Area, B. F. Vaughan, forest examiner, Russellville, Ark.; Arkansas Area, J. A. Bateman, national forest examiner, Hot Springs, Ark.

SURVEY OF LANDS.—RUDOLPH DIEFFENBACH, forest examiner in charge, Washington, D. C. Examiners of surveys: White Mountain Area, Frederick A. Gardner, Carl F. Muzzey, and Paul G. Jenney, Gorham, N. H.; Shenandoah Area, E. R. Conrad, Harrisonburg, Va.; Nantahala Area, James Denman, Asheville, N. C.; Mount Mitchell Area, Dave M. Gibson, Marion, N. C.; Natural Bridge Area, Alfred R. Kinney and Walter H. Sullivan, Buena Vista, Va.; Savannah Area, W. N. Sloan, Franklin, N. C.

LAW.—A. H. McCONVILLE, assistant to the solicitor in charge, Washington, D. C. Title attorneys: M. B. Stickley, Washington, D. C.; George E. Taylor, Murphy, N. C.; Alfred S. Grigg, Johnson City, Tenn.; Julius Fletcher, Lenoir, N. C.; Judson S. Bohannon, Moulton, Ala.; John W. Van Hoy, Mena, Ark.; John Awtrey, Franklin, N. C.; W. L. Newman, Woodstock, Va.; Pierce R. Massie, Lynchburg, Va.; H. A. Lamprey, Woodsville, N. H.; John C. Forney, Moulton, Ala.

DISTRICT 1.

NORTHERN DISTRICT.

Montana, northeastern Washington, northern Idaho, and northwestern South Dakota. Office, Federal Building, Missoula, Mont.

R. H. RUTLEDGE, acting district forester.

LAW.—Office of the Solicitor (Forest Service branch). D. F. McGOWAN, assistant to the solicitor, in charge.

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OPERATION.—GLEN A. SMITH, assistant district forester; G. I. PORTER, executive assistant; R. B. ADAMS, telephone engineer.

MAINTENANCE.—F. W. BEIER, JR.

SILVICULTURE.—J. F. PRESTON, assistant district forester.

LOGGING ENGINEERING.—J. W. GIRARD, U. S. SWARTZ.

TIMBER SALES.—Field supervision, C. E. KNOUF, lumberman.

PLANTING.—E. F. WHITE, in charge. Savenac Nursery, D. S. Olson, planting assistant, in charge, Haugan, Mont.

PRODUCTS.—C. N. WHITNEY, forest examiner.

INSECT CONTROL.— ———.

RESEARCH.— ———.

JAMES R. WEIR, consulting pathologist; E. E. HUBERT, assistant, 408 Columbia Building, Spokane, Wash.

GRAZING.—C. H. ADAMS, assistant district forester; BURR W. CLARK, executive assistant.

STUDIES.—L. C. HURTT, grazing examiner.

LANDS.—F. A. FENN, assistant district forester.

CLAIMS.—P. J. O'BRIEN, law examiner; F. R. INGALSBE, mineral examiner.

LAND CLASSIFICATION.—C. B. SWIM, assistant.

ENGINEERING.—G. H. LAUTZ, district engineer; F. E. THIEME, assistant district engineer.

MAPS AND SURVEYS.—J. B. YULE, in charge.

Drafting.—K. D. SWAN.

Entry Surveys.—J. B. YULE.

Topographic Surveys.—J. B. YULE.

ROADS.—G. H. LAUTZ, in charge; H. A. CALKINS.

WATER POWER.—E. W. KRAMER, in charge.

EXPERIMENT STATION.

Priest River, Kaniksu National Forest.—JULIUS A. LARSEN, forest examiner, acting in charge, Priest River, Idaho.

NATIONAL FORESTS.

IDAHO.

Clearwater.—R. A. HAMILTON, forest supervisor, Orofino (WU); F. J. Jefferson and F. T. Carroll, fire assistants.

Coeur d'Alene.—M. H. WOLFF, forest supervisor, Coeur d'Alene (WU); C. C. Delavan, fire assistant; C. L. Billings and Philip Neff, lumbermen.

Kaniksu.—See Washington.

Nezperce.—S. V. FULLAWAY, Jr., forest supervisor, Grangeville (WU); F. J. Jefferson, deputy forest supervisor; R. N. Cunningham, fire assistant.

Pend Oreille.—J. A. FITZWATER, forest supervisor, Sandpoint (WU); Jas. E. Ryan, deputy forest supervisor; R. R. Fitting, fire assistant.

Selway.—CHARLES F. HOWELL, forest supervisor, Kooskia (WU); John H. Clack, deputy forest supervisor; F. J. Klobacher, fire assistant.

St. Joe.—ROSCOE HAINES, forest supervisor, St. Maries (Continental); A. S. Hauge, lumberman.

MONTANA.

- Absaroka.**—ERNEST W. SHAW, forest supervisor, Livingston (WU); Frank J. Mosher, forest examiner.
- Beartooth.**—R. TREVOR FERGUSON, forest supervisor, Billings (WU); A. M. Baum, deputy forest supervisor.
- Beaverhead.**—J. B. SOMERS, forest supervisor, Dillon (WU); A. Price Townsend, deputy forest supervisor.
- Bitterroot.**—W. W. WHITE, forest supervisor, Missoula (WU, P); Mal-lory N. Stickney, deputy forest supervisor.
- Blackfeet.**—R. P. McLAUGHLIN, forest supervisor, Kalispell (WU); R. G. Merritt, forest examiner; R. L. Woesner, lumberman.
- Cabinet.**—H. L. BAKER, forest supervisor, Thompson Falls (WU); How-ard Drake, lumberman.
- Custer.**—J. C. WHITHAM, forest supervisor, Miles City (WU); O. C. Bradeen, deputy forest supervisor.
- Deerlodge.**—LEWIS C. STOCKDALE, forest supervisor, Anaconda (P); W. W. Weber, deputy forest supervisor; W. C. Latane, forest examiner.
- Flathead.**—JOSEPH D. WARNER, forest supervisor, Kalispell (WU); L. G. Hornby, forest supervisor; C. S. Webb, lumberman; Kenneth Wolfe and H. L. Redlingshafer, fire assistants.
- Gallatin.**—R. E. BODLEY, forest supervisor, Bozeman (WU).
- Helena.**—C. K. MCHARG, Jr., forest supervisor, Helena (WU); A. H. Abbott, deputy forest supervisor.
- Jefferson.**—W. B. WILLEY, forest supervisor, Great Falls (WU); A. C. Adams, deputy forest supervisor.
- Kootenai.**———, forest supervisor, Libby (WU); Leslie F. Vinal, deputy forest supervisor; C. B. Baker and Clark Miles, fire assistants.
- Lewis and Clark.**—DWIGHT L. BEATTY, forest supervisor, Choteau (WU).
- Lolo.**—ELERS KOCH, forest supervisor, Missoula (WU, P).
- Madison.**—W. J. DERRICK, forest supervisor, Sheridan (WU); H. G. Ade, deputy forest supervisor.
- Missoula.**—RUTLEDGE PARKER, forest supervisor, Missoula (WU, P).
- Sioux.**—J. C. WHITHAM, forest supervisor, Miles City (WU); O. C. Bradeen, deputy forest supervisor.

WASHINGTON.

- Kaniksu.**—H. R. FLINT, forest supervisor, Newport (WU via Priest River-Exp., via Priest River); A. J. Feary, deputy forest supervisor; C. R. Clark, forest examiner; J. S. Baird, lum-berman; G. W. Kitch, fire assistant.

DISTRICT 2.

ROCKY MOUNTAIN DISTRICT.

Colorado, Wyoming, South Dakota, Nebraska, northern Michigan, and northern Minnesota. Office, New Federal Building, Denver, Colo.

SMITH RILEY, district forester; W. I. HUTCHINSON, information; PETER KEPLINGER, education.

LAW.—Office of the Solicitor (Forest Service branch). GEO. E. TROWBRIDGE, assistant to the solicitor, in charge.

ACCOUNTS.—Q. R. CRAFT, district fiscal agent.

OPERATION.—FRED MORRELL, assistant district forester; JOHN McLAREN, national forester examiner, fire protection; H. R. KYLIE, telephone engineer; ARTHUR M. COOK, improvements.

MAINTENANCE.—F. H. CARROLL.

SILVICULTURE.—M. W. THOMPSON, forest examiner in charge; EARL W. TINKER, forest examiner.

PLANTING.—FRED R. JOHNSON.

FOREST INVESTIGATIONS.—C. G. BATES.

CARL HARTLEY, consulting pathologist, Denver, Colo.

GRAZING.—JOHN H. HATTON, assistant district forester; LYNN H. DOUGLAS, inspector of grazing.

STUDIES.—LYNN H. DOUGLAS, inspector of grazing, in charge; JESSE M. MANN, grazing assistant.

LANDS.—C. J. STAHL, assistant district forester; THOS. M. MOORMAN, assistant; CROSBY A. HOAR, classification and exchange; J. B. CAMMANN, mineral examiner; ARTHUR H. CARHART, recreation engineer.

ENGINEERING.—FRED D. MENDENHALL, district engineer; J. L. BROWNLEE, assistant district engineer.

MAPS AND SURVEYS.—————.

Drafting.—C. B. GOSORN, acting.

Entry Surveys.—W. C. CAMPBELL.

Topographic Surveys.—J. BURGESS, acting.

ROADS.—FRED D. MENDENHALL, in charge; J. L. BROWNLEE, assistant; R. M. GUMAER, superintendent of construction.

WATER POWER.—FRED D. MENDENHALL.

EXPERIMENT STATIONS.

Fremont, Pike National Forest.—C. G. BATES, Manitou, Colo.

Wagon Wheel Gap, Rio Grande National Forest.—J. H. JARBOE, of the Weather Bureau, Wagon Wheel Gap, Colo.

NATIONAL FORESTS.

COLORADO.

- Arapahoe.**—DWIGHT S. JEFFERS, forest supervisor, Hot Sulphur Springs (WU) ; H. H. RICHMOND, forest examiner.
- Battlement.**—JOHN W. SPENCER, forest supervisor, Grand Junction (WU).
- Cochetopa.**—FRED B. AGEE, forest supervisor, Saguache (WU) ; Clarence E. Taylor, forest examiner.
- Colorado.**—H. N. WHEELER, forest supervisor, Fort Collins (WU).
- Durango.**—H. EARL FRENCH, forest supervisor, Durango (WU) ; Wm. R. Fraser, deputy forest supervisor.
- Gunnison.**—WILLIAM R. KREUTZER, forest supervisor, Gunnison (WU).
- Hayden.**—See Wyoming.
- Holy Cross.**—HARRY H. FRENCH, forest supervisor, Glenwood Springs (WU) ; Robert H. Easterbrooks, forest examiner.
- Leadville.**—R. E. CLARK, forest supervisor, Leadville (WU, P) ; Gerald M. Hunter, deputy forest supervisor.
- Montezuma.**—A. F. C. HOFFMAN, forest supervisor, Mancos (WU) ; Charles Steuart, forest examiner.
- Pike.**—ARTHUR T. UPSON, forest supervisor, Denver (WU, P) ; Everard S. Keithley, forest examiner. Monument Nursery, W. H. Schrader, forest planting assistant, in charge, Monument.
- Rio Grande.**—A. L. SWEITZER, forest supervisor, Monte Vista (WU) ; Walter F. Bowers, deputy forest supervisor.
- Routt.**—RAY PECK, forest supervisor, Steamboat Springs (WU) ; Alve L. Richey, deputy forest supervisor.
- San Isabel.**—ALBIN G. HAMEL, forest supervisor, Westcliffe (WU).
- San Juan.**—LESLIE BROWNELL, forest supervisor, Pagosa Springs (WU) ; Chas. B. Mack, deputy forest supervisor.
- Sopris.**—HARRY H. FRENCH, forest supervisor, Glenwood Springs (WU).
- Uncompahgre.**—J. W. LOWELL, Jr., forest supervisor, Delta (WU) ; Harold L. Borden, forest examiner.
- White River.**—JAMES A. BLAIR, forest supervisor, Glenwood Springs (WU) ; Theodore Krueger, forest examiner.

MICHIGAN.

- Michigan.**—HUBER C. HILTON, forest supervisor, East Tawas (WU). Beal Nursery, East Tawas.

MINNESOTA.

- Minnesota.**—G. E. MARSHALL, forest supervisor, Cass Lake (WU). Cass Lake Nursery.
- Superior.**—C. A. DAHLGREN, forest supervisor, Ely (WU) ; Robert G. Schreck, forest examiner.

NEBRASKA.

Nebraska.—JAY HIGGINS, forest supervisor, Halsey (WU). Morton Nursery, Nenzil. Bessey Nursery, Harry C. Turner, forest planting assistant, in charge, Halsey.

SOUTH DAKOTA.

Black Hills.—GEORGE A. DUTHIE, forest supervisor, Deadwood (WU); Chas. L. Cecil, deputy forest supervisor; L. E. Hitchcock, forest examiner.

Harney.—JAMES F. CONNER, forest supervisor, Custer (WU); Bernard E. Leete, forest examiner.

WYOMING.

Bighorn.—RESS PHILIPS, forest supervisor, Sheridan (WU); Andrew G. Stockwell, deputy forest supervisor.

Black Hills.—See South Dakota.

Hayden.—JAMES BLACKHALL, forest supervisor, Encampment (WU, P).

Medicine Bow.—EARL S. PEIRCE, forest supervisor, Laramie (WU, P); Louis E. Coughlin, deputy forest supervisor; Andrew Hutton, forest examiner.

Shoshone.—R. W. ALLEN, forest supervisor, Cody (WU); E. T. Wolf, forest examiner.

Washakie.—C. G. POOLB, forest supervisor, Lander (WU).

DISTRICT 3.

SOUTHWESTERN DISTRICT.

Arizona and New Mexico. Office, Gas and Electric Building, Albuquerque, N. Mex.

PAUL G. REDINGTON, district forester; WARD SHEPARD, forest examination, educational cooperation, and game protection.

LAW.—Office of the Solicitor (Forest Service branch). CHARLES S. BROTHERS, assistant to the solicitor, in charge.

ACCOUNTS.—ALBERT MORRIS, district fiscal agent.

OPERATION.—WARD SHEPARD, forest examiner, acting in charge of operation; EDWARD P. ANCONA, deputy forest supervisor.

MAINTENANCE.—H. B. HAMMOND.

SILVICULTURE.—H. H. CHAPMAN, assistant district forester; D. M. LANG, lumberman; JOHN H. ALLISON and QUINCY RANGLES, forest examiners.

W. H. LONG, consulting pathologist, Albuquerque, N. Mex.

GRAZING.—JOHN KERR, assistant district forester; PAUL H. ROBERTS, inspector of grazing.

STUDIES.—M. W. TALBOTT and C. K. COOPERRIDER, grazing examiners.

LANDS.—FRANK C. W. POOLER, assistant district forester; FRANK E. ANDREWS, national forest examiner. Classification: REX KING and H. D. BURRALL, forest examiners.

ENGINEERING.—C. A. LONG, district engineer.

MAPS AND SURVEYS.—LEE C. DAVES, assistant engineer in charge.

Drafting.—F. E. LANDON.

Entry Surveys.—FRANK D. YOST and A. W. HENDRIX, surveyors.

ROADS.—C. A. LONG, in charge. Trail Surveys: J. C. MULDER.

WATER POWER.—C. A. LONG, in charge.

EXPERIMENT STATION.

Fort Valley, Coconino National Forest.—G. A. PEARSON, forest examiner, in charge, Flagstaff, Ariz.

NATIONAL FORESTS.

ARIZONA.

Apache.—ROBERT J. SELKIRK, forest supervisor, Springerville (P).

Coconino.—RAYMOND E. MARSH, forest supervisor, Flagstaff (WU, P); Kenner C. Kartchner, deputy forest supervisor; Robert F. Rhinehart, lumberman; Leonard R. Lessel and James W. Girdner, national forest examiners.

Coronado.—PAUL P. PITCHLYNN, forest supervisor, Tucson (WU); H. Basil Wales, forest examiner; Chas. L. Rak, deputy forest supervisor.

Crook.—T. T. SWIFT, forest supervisor, Safford (WU).

Prescott.—EDWARD G. MILLER, forest supervisor, Prescott (WU); J. C. McNelty, deputy forest supervisor.

Sitgreaves.—T. C. HOYT, forest supervisor, Snowflake (P).

Tonto.—W. H. GODDARD, forest supervisor, Roosevelt (WU); J. H. Sizer, deputy forest supervisor.

Tusayan.—IRA T. YARNALL, forest supervisor, Williams (WU, P); Francis L. W. Grubb and Chester V. Christensen, deputy forest supervisors.

NEW MEXICO.

Carson.— ———, forest supervisor, Taos (WU); L. R. De Camp, deputy forest supervisor, acting in charge.

Coronado.—See Arizona.

Datil.—AUSBURN H. DOUGLAS, forest supervisor, Magdalena (WU, P) ; Robert Munro, national forest examiner ; Thomas C. Turk, deputy forest supervisor.

Gila.—FREDERIC WINN, forest supervisor, Silver City (WU, P) ; James A. Scott, deputy forest supervisor.

Lincoln.—O. F. ARTHUR, forest supervisor, Alamogordo (WU) ; William J. Anderson, deputy forest supervisor.

Manzano.—JAMES F. MULLEN, forest supervisor, Albuquerque (WU, P) ; L. J. Putsch, deputy forest supervisor.

Santa Fe.—JOSEPH C. KIRCHER, forest supervisor, Santa Fe (WU, P) ; Earl W. Loveridge, deputy forest supervisor ; Gordon T. Backus, forest examiner. Las Gallinas Nursery, Herman Krauch, forest examiner.

DISTRICT 4.

INTERMOUNTAIN DISTRICT.

Utah, southern Idaho, western Wyoming, eastern and central Nevada, and northwestern Arizona. Office, Forest Service Building, Ogden, Utah.

L. F. KNEIPP, district forester.

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ACCOUNTS.—HOMER A. SEIP, district fiscal agent.

OPERATION.—VERNON METCALF, assistant district forester ; CHAS. D. SIMPSON, acting assistant district forester ; JAMES E. SCOTT, national forest inspector, executive assistant ; R. B. ADAMS, telephone engineer.

MAINTENANCE.—CLYDE M. GIVIN.

SILVICULTURE.—C. B. MORSE, assistant district forester ; D. F. SEEREY, logging engineer ; S. S. STEWART, forest examiner.

PLANTING.—E. H. HALL, in charge. Cottonwood Nursery, N. J. FETHEROLF, planting assistant, in charge, Sugarhouse, Utah.

GRAZING.—C. N. WOODS, assistant district forester ; ERNEST WINKLER, inspector of grazing ; S. B. LOCKE, forest examiner, fish and game.

STUDIES.—MARK ANDERSON, grazing examiner.

LANDS.—C. N. WOODS, assistant district forester ; R. E. GERY, assistant ; W. B. RICE, in charge of entry surveys.

RESEARCH.—C. F. KORSTIAN, forest examiner, in charge.

ENGINEERING.—J. P. MARTIN, district engineer ; F. J. RYDER, administrative assistant.

MAPS AND SURVEYS.—O. C. LOCKHART, Jr.

Drafting.—F. I. SHAFER, in charge.

ROADS.—J. P. MARTIN, in charge; H. G. MCPHETERS and E. C. ROSS, assistants.

WATER POWER.—J. P. MARTIN, in charge.

EXPERIMENT STATION.

Great Basin, Manti National Forest.—ARTHUR W. SAMPSON, plant ecologist, in charge; F. S. Baker, forest examiner, Ephraim, Utah.

NATIONAL FORESTS.

ARIZONA.

Dixie.—See Utah.

Kaibab.—JOHN C. ROAK, forest supervisor, Kanab, Utah (WU).

IDAHO.

Boise.—E. GRANDJEAN, forest supervisor, Boise (WU); Lyle F. Watts, deputy forest supervisor.

Cache.—See Utah.

Caribou.—G. G. HENDERSON, acting forest supervisor, Montpelier (WU).

Challis.—DAVID LAING, forest supervisor, Challis (WU).

Idaho.—WALTER G. MANN, forest supervisor, McCall (WU, P).

Lemhi.—CHAS. F. EVANS, forest supervisor, Mackay (WU).

Minidoka.—W. M. CAMPBELL, forest supervisor, Burley (WU); J. W. Stokes, deputy forest supervisor.

Payette.—GUY B. MAINS, forest supervisor, Emmett (WU); F. S. Moore, deputy forest supervisor.

Salmon.—S. C. SCRIBNER, forest supervisor, Salmon (WU); Ernest A. Renner, deputy forest supervisor.

Sawtooth.—M. S. BENEDICT, forest supervisor, Hailey (WU); Leslie E. Dodge and C. M. Mangun, deputy forest supervisors.

Targhee.—SAM'L W. STODDARD, forest supervisor, St. Anthony (WU); John N. Kinney, deputy forest supervisor.

Weiser.—J. B. LAFFERTY, forest supervisor, Weiser (WU); T. V. Pearson, deputy forest supervisor.

NEVADA.

Humboldt.—C. E. FAVRE, forest supervisor, Elko (WU); Oscar W. Mink, deputy forest supervisor.

Nevada.—ALEXANDER MCQUEEN, forest supervisor, Ely (WU).

Toiyabe.—JAS. W. MCGOWAN, forest supervisor, Austin (WU, P).

UTAH.

Ashley.—W. M. ANDERSON, forest supervisor, Vernal (WU).

Cache.—E. C. SHEPARD, forest supervisor, Logan (WU); Edmund B. S. Spencer, deputy forest supervisor.

- Dixie-Sevier.**—WM. M. MACE, forest supervisor, Cedar City (WU); Wallace M. Riddle, deputy forest supervisor.
- Fillmore.**—JOHN RAPHAEL, forest supervisor, Richfield (WU); A. M. Woodbury, deputy forest supervisor.
- Fishlake.**—C. A. MATTESSON, forest supervisor, Salina (WU).
- La Sal.**—CHAS. DEMOISY, Jr., forest supervisor, Moab (WU).
- Manti.**—J. W. HUMPHREY, forest supervisor, Ephraim (WU).
- Minidoka.**—See Idaho.
- Powell-Sevier.**—GEO. H. BARNEY, forest supervisor, Widtsoe (WU).
- Uinta.**—W. W. BLAKESLEE, forest supervisor, Provo (WU); R. D. Garver, forest examiner.
- Wasatch.**—DANA PARKINSON, forest supervisor, Salt Lake City (WU, P); David A. Arrivee, deputy forest supervisor; Louis B. Koch, scaler, in charge of Standard Timber Co. sale.

WYOMING.

- Bridger.**—LEE E. COOPER, forest supervisor, Pinedale (WU); E. E. McKee, deputy forest supervisor.
- Teton.**—A. C. MCCAIN, forest supervisor, Jackson (WU).
- Wyoming.**—CHARLES A. BEAM, forest supervisor, Afton (WU).

DISTRICT 5.

CALIFORNIA DISTRICT.

California and southwestern Nevada. Office, 114 Sansome Street, San Francisco, Calif.

COERT DUBOIS, district forester.

INFORMATION.—R. F. HAMMATT, in charge; J. D. MAXFIELD, in charge exhibits.

LAW.—Office of the Solicitor (Forest Service branch). H. P. DECHANT, assistant to the solicitor, in charge.

ACCOUNTS.—A. W. SMITH, district fiscal agent.

OPERATION.—DON P. JOHNSTON, assistant district forester; CLARENCE WILEY, national forest inspector.

TELEPHONE ENGINEERING.—F. H. HAFLEY, telephone engineer.

MAINTENANCE.—FRANK HAYNIE.

LAW ENFORCEMENT.—C. L. HILL, forest examiner in charge. Field Investigations, C. V. BRERETON, national forest examiner.

SILVICULTURE.—T. D. WOODBURY, assistant district forester.

LOGGING ENGINEERING.—

TIMBER SALES.—J. C. ELLIOTT, lumberman.

TIMBER SURVEYS.—O. M. EVANS, forest examiner.

PLANTING AND FOREST INVESTIGATIONS.—S. B. SHOW, E. N. MUNNS, C. A. KUPFER.

INSECT CONTROL.—RALPH HOPPING, national forest examiner.

FOREST PATHOLOGY.—E. P. MEINECKE, consulting pathologist; J. S. BOYCE, H. G. LACHMUND, ARTHUR S. RHOADS, R. A. STUDHALTER, N. REX HUNT, assistants.

GRAZING.—C. E. RACHFORD, assistant district forester.

STUDIES.—F. D. DOUTHITT, grazing examiner.

LANDS.—L. A. BARRETT, assistant district forester; GEORGE MILLER, national forest examiner.

MINERAL EXAMINATION, LAND CLASSIFICATION, AND ENTRY SURVEYS.—W. H. FRIEDHOFF, mineral examiner in charge of field work.

ENGINEERING.—F. H. FOWLER, district engineer; J. C. DORT, assistant district engineer; F. A. LAW, administrative assistant.

MAPS AND SURVEYS.—PERCY L. DAY, S. N. STONER.

Drafting.—R. E. L. BORGFELDT.

ROADS.—F. H. FOWLER, in charge.

WATER POWER.—F. H. FOWLER, in charge.

NATIONAL FORESTS.

CALIFORNIA.

Angeles.—R. H. CHARLTON, forest supervisor, Los Angeles (WU, P).

California.—J. D. COFFMAN, forest supervisor, Alder Springs via Wil-
lows (WU); B. H. MACE, deputy forest supervisor.

Cleveland.—M. R. TILLOTSON, forest supervisor, San Diego (WU).

Eldorado.—EDWARD I. KOTOK, forest supervisor, Placerville (WU).

Inyo.—C. E. JORDAN, forest supervisor, Bishop (WU).

Klamath.—W. A. HUESTIS, forest supervisor, Yreka (WU).

Lassen.—JAMES O. MORROW, forest supervisor, Red Bluff (WU); T. C.
West, deputy forest supervisor.

Modoc.—W. G. DURBIN, forest supervisor, Alturas (WU).

Monoc.—See Nevada.

Monterey.—J. R. HALL, forest supervisor, Santa Barbara (P).

Plumas.—D. N. ROGERS, forest supervisor, Quincy (WU); George R. Orr,
lumberman.

Santa Barbara.—J. R. HALL, forest supervisor, Santa Barbara (P).

Sequoia.—S. W. WYNNE, forest supervisor, Hot Springs (WU); F. P.
Cunningham, deputy forest supervisor.

Shasta.—N. H. SLOANE, forest supervisor, Sisson (P); Belknap C. Gold-
smith, forest examiner. Pilgrim Creek Nursery; Roscoe
Weaver, forest examiner.

Sierra.—M. A. BENEDICT, forest supervisor, Northfork (WU via Friant-
Exp. via Friant).

Stanislaus.—J. V. WULFF, forest supervisor, Sonora (WU).
Tahoe.—R. L. P. BIGELOW, forest supervisor, Nevada City (WU).
Trinity.—E. V. JOTTER, forest supervisor, Weaverville (WU).

NEVADA.

Eldorado.—See California.
Inyo.—See California.
Mono.—WM. M. MAULE, forest supervisor, Minden (WU).
Tahoe.—See California.

DISTRICT 6.

NORTH PACIFIC DISTRICT.

Washington, Oregon, and Alaska. Office, Post Office Building, Portland, Oreg.

GEO. H. CECIL, district forester; A. G. JACKSON, education.

LAW.—Office of the Solicitor (Forest Service branch). W. F. STALEY, assistant to the solicitor, in charge.

ACCOUNTS.—H. I. LOVING, district fiscal agent.

OPERATION.—A. O. WAHA, assistant district forester; M. L. MERRITT, forest examiner, improvements; C. M. ALLEN, telephone engineer; H. M. WHITE, national forest inspector; W. B. OSBORNE, Jr., forest examiner, fire protection; H. L. PLUMB, forest examiner, trails.

MAINTENANCE.—H. G. WHITNEY.

INSPECTION (Protection of Oregon & California Railroad lands and cooperation under Weeks law).—R. H. CHAPLER, forest examiner.

SILVICULTURE.—THORNTON T. MUNGER, forest examiner, in charge; W. T. ANDREWS, logging engineer; EDWIN C. ERICKSON, lumberman; BRUCE E. HOFFMAN, GEO. L. DRAKE, C. J. CONOVER, and G. A. BRIGHT, forest examiners; A. J. JAENICKE, forest examiner on insect control; E. J. HANZLIK, forest examiner on working plan.

PLANTING.—J. F. KÜMMEL and W. H. LEVE, forest examiners.

GRAZING.—E. N. KAVANAGH, assistant district forester; J. L. PETERSON, grazing examiner.

STUDIES.—D. C. INGRAM, grazing examiner.

LANDS.—C. J. BUCK, assistant district forester.

CLAIMS AND STATIONS.—T. M. TALBOTT, national forest examiner.

LAND CLASSIFICATION (ALASKA).—ASHER IRELAND and WELLMAN HOLBROOK.

SETTLEMENT.—A. H. WRIGHT, national forest examiner.

ENTRY SURVEYS.—GEO. W. ROOT.

RECREATION.—FRED W. CLEATOR, deputy forest supervisor.

LAND EXCHANGES.—WM. RYLE TEED, national forest examiner.

MINERAL EXAMINATION.—W. N. H. WOODWARD, mineral examiner.

ENGINEERING.—P. H. DATER, district engineer; D. V. STROOP, administrative assistant.

MAPS AND SURVEYS.—H. D. FOSTER, forest examiner.

Drafting.———.

Surveys.—JAMES FRANKLAND.

ROADS.—P. H. DATER, in charge; CECIL A. LORD.

WATER POWER.—P. H. DATER.

PRODUCTS.—W. H. GIBBONS, forest examiner in charge; C. W. GOULD, forest examiner, Portland; C. W. ZIMMERMAN and H. C. STINSON, assistant engineers in forest products, Seattle.

EXPERIMENT STATION.

Wind River, Columbia National Forest.—JULIUS V. HOFMANN, forest examiner, in charge, Stabler, Wash.

NATIONAL FORESTS.

ALASKA.

Chugach.—C. H. FLORY, superintendent of Alaska Forests, Ketchikan (SC, U. S. A., WU); C. T. Beach, forest supervisor, Cordova (WU, P).

Tongass.—C. H. FLORY, forest supervisor, Ketchikan (SC, U. S. A., WU); B. F. Heintzleman, deputy forest supervisor; R. E. Kan Smith, forest examiner.

OREGON.

Cascade.—C. R. SEITZ, forest supervisor, Eugene (WU, P); R. S. Wallace, forest examiner.

Crater.—H. B. RANKIN, forest supervisor, Medford (WU, P); Fred A. Matz, national forest examiner.

Deschutes.—NORMAN G. JACOBSON, forest supervisor, Bend (WU, P); H. E. Vincent, deputy forest supervisor; W. J. Sproat, forest examiner; F. V. Horton, grazing examiner.

Fremont.—GILBERT D. BROWN, forest supervisor, Lakeview (WU via Reno, Nev., P); R. A. Bradley and D. F. Brennan, deputy forest supervisors.

Klamath.—See California.

Malheur.—CY. J. BINGHAM, forest supervisor, John Day (WU via Baker-Exp. via Baker).

Minam.—R. M. EVANS, forest supervisor, Baker (WU); J. F. Irwin, deputy forest supervisor.

Ochoco.—V. V. HARPHAM, forest supervisor, Prineville (WU, PT & T); Douglas C. Ingram, grazing examiner.

- Oregon.—T. H. SHERRARD, forest supervisor, Portland (WU, P) ; Carl B. Neal, deputy forest supervisor.
- Santiam.—C. C. HALL, forest supervisor, Albany (WU, P).
- Siskiyou.—N. F. MACDUFF, forest supervisor, Grants Pass (WU, P) ; T. M. Hunt, deputy forest supervisor ; H. A. Haefner, forest examiner.
- Siuslaw.—RALPH S. SHELLEY, forest supervisor, Eugene (WU, P) ; H. M. Johnson, forest examiner.
- Umatilla.—W. W. CRYDER, forest supervisor, Pendleton (WU, P).
- Umpqua.—S. C. BARTRUM, forest supervisor, Roseburg (WU, P) ; George Bonebrake, deputy forest supervisor.
- Wallowa.—H. W. HARRIS, forest supervisor, Wallowa (WU) ; N. J. Billings, deputy forest supervisor ; A. R. Wilcox, forest examiner.
- Wenaha.—See Washington.
- Whitman.—R. M. EVANS, forest supervisor, Baker (WU) ; I. E. Jones, deputy forest supervisor ; Walter L. Dutton, grazing examiner.

WASHINGTON.

- Chelan.—E. H. MACDANIELS, forest supervisor, Chelan (PT & T-Exp. via Wenatchee) ; E. O. Blankenship, deputy forest supervisor.
- Columbia.—F. H. BRUNDAGE, forest supervisor, Portland, Oreg. (WU, P).
- Colville.—C. C. REID, forest supervisor, Republic (WU, P).
- Okanogan.—P. T. HARRIS, forest supervisor, Okanogan (PT & T-Exp. via Wenatchee) ; G. E. Mitchell, deputy forest supervisor.
- Olympic.—R. L. FROMME, forest supervisor, Olympia (WU, P) ; Chris Morgenroth, deputy forest supervisor ; A. A. Griffin and O. F. Ericson, forest examiners.
- Rainier.—G. F. ALLEN, forest supervisor, Tacoma (WU, P) ; E. J. Fenby, deputy forest supervisor ; F. B. Kellogg, forest examiner.
- Snoqualmie.—W. G. WEIGLE, forest supervisor, Seattle (WU, P) ; Lewis A. Treen, jr., forest supervisor.
- Washington.—C. H. PARK, forest supervisor, Bellingham (WU, P) ; R. L. Campbell, deputy forest supervisor.
- Wenaha.—JOHN C. KUHS, forest supervisor, Walla Walla (WU).
- Wenatchee.—A. H. SYLVESTER, forest supervisor, Leavenworth (WU).

DISTRICT 7.

EASTERN DISTRICT.

- Arkansas, Alabama, Florida, Oklahoma, South Carolina, Georgia, North Carolina, Tennessee, Virginia, West Virginia, New Hampshire, Maine, Porto Rico. Office, Atlantic Building, Washington, D. C.
- F. W. REED, district forester.

ACCOUNTS.—J. H. KERRICK, district fiscal agent.

OPERATION, } H. O. STABLER, assistant district forester; JOHN
ENGINEERING, } M. FOX, assistant engineer; R. C. HUEY, roads.

SILVICULTURE.—I. F. ELDREDGE, assistant district forester.

GRAZING, } F. W. REED, district forester; W. F. HILL, land classifi-
LANDS, } cation.

NATIONAL FORESTS.

ALABAMA.

Alabama.—BURLEY M. LUFBURROW, forest ranger in charge, Moulton.

Arkansas.—E. L. LINDSEY, acting forest supervisor, Hot Springs (WU, P); Chas. A. Plymale, deputy forest supervisor.

Ozark.—C. J. HELLER, forest supervisor, Russellville (WU).

FLORIDA.

Florida.—L. L. BISHOP, forest supervisor, Pensacola (WU, P); C. H. Rogers, deputy forest supervisor.

GEORGIA.

Georgia.—See Tennessee.

Savannah.—See North Carolina.

MAINE.

White Mountain.—See New Hampshire.

NEW HAMPSHIRE.

White Mountain.—J. J. FRITZ, forest supervisor, Gorham (WU, P); E. D. Fletcher, national forest examiner.

NORTH CAROLINA.

Pisgah (includes Boone, Mount Mitchell, north half of Nantahala, and Pisgah purchase areas and Pisgah National Forest and Game Preserve).—VERNE RHOADES, forest supervisor, Asheville (WU, P); J. St. J. Benedict, forest examiner; W. J. Damtoft, forest examiner.

Savannah (includes south half of Nantahala and the Savannah purchase areas).—R. W. SHIELDS, forest supervisor, Franklin, N. C. (WU, P); E. J. Mead, forest examiner.

OKLAHOMA.

Wichita.—FRANK RUSH, forest supervisor, Cache (WU).

PORTO RICO.

Luquillo.—E. MURRAY BRUNER, forest examiner, in charge, Rio Piedras.

SOUTH CAROLINA.

Savannah.—See North Carolina.

TENNESSEE.

Cherokee-Georgia.—H. G. SPAHR, forest supervisor, Athens, Tenn.
(WU, P).

White Top (includes Unaka and White Top purchase areas).—H. L.
RUSSELL, forest supervisor, Johnson City (WU, P).

VIRGINIA.

Natural Bridge.—J. H. FAHRENBACH, forest supervisor, Buena Vista
(WU, P); H. M. Sears, forest examiner.

Shenandoah (includes Shenandoah, Massanutten, and Potomac purchase
areas).—S. H. MARSH, forest supervisor, Harrisonburg (WU,
P); S. H. Thompson, forest examiner.

White Top.—See Tennessee.

WEST VIRGINIA.

Monongahela.—H. L. JOHNSON, forest examiner, in charge, Elkins
(WU, P).

SERVICE CHANGES.

APPOINTED.

LABORATORY.—Clarence W. Coye, industrial specialist in forest products; Cecil V. Maudlin, assistant engineer in forest products; Galo W. Blanco, Robert B. Lebo, Alfred C. Lindauer, and George G. Towne, assistant chemists in forest products.

DISTRICT 1.—Ira N. Goss, Frank L. House, and Guy O'Neil, Bear-tooth; Harry H. Halvorson, Lewis and Clark; John M. Brocken, Blackfeet; Arthur D. Moir, Absaroka; Irving R. Jensen, James E. Ready, Henry J. Thol, and Roy T. Mills, Flathead; Charles S. Mathews, Deer-lodge; John P. Baldwin and Leland E. Tripp, Kootenai; Sylvester P. Meade, William R. Schofield, and Arthur R. Truman, Beaverhead; Carl J. Simon, Helena; Le Baron M. Beard, Missoula; George H. Hankinson, Lolo; William H. Deasy, Nezperce; Emanuel B. Schlette, Pend Oreille, forest rangers. Karl J. George, Coeur d'Alene, clerk. John S. Baird, Kootenai, Adolph G. Hauge, St. Joe; Philip Neff, Coeur d'Alene, lumbermen. Bessie Coyne, Nezperce, forest clerk. Thelma Jensen, Beaverhead, clerk (stenographer and typewriter). Laurence D. Dunn and Edward W. Hartwell, Blackfeet; Wellington I. White, forest assistants. Robert L. Hesse, Kootenai, scaler. Etta Brechbill, draftsman (copyist-topographic). Mary S. Hall and Leonora J. Holmes, clerks (stenographers and typewriters). Grant Higgins and Samuel H. Ketcham, surveyors.

DISTRICT 2.—Gerald M. Hunter (reinstatement), Leadville, forest examiner. Simeon D. Anderson and Lee P. Brown, Gunnison; Earle D. Bailey, Pike, forest assistants. James L. Gibson, Arapaho; Edith C. Lutzke, Michigan; Henry J. Vocate, San Juan, forest clerks. Bertha L. Shakespeare, Rio Grande, clerk (stenographer and typewriter). Maurine J. Griffin, Cochetopa; Earl H. Hitch, Pike, clerks (typewriters). Vance I. Coe, Stanley H. Forrest, Robert L. Peltz, and Marion J. Webber (reinstatement), Black Hills; James C. Maloy, Durango; William Earl Jennings, Rio Grande; Forrest E. Young, Shoshone; Frank Carney, Superior; Eldon W. Hauser (reinstatement), Uncompahgre; Fred Stell (reinstatement), White River, forest rangers. Robert M. Gumaer (reinstatement), superintendent of construction. James P. Reddick (reinstatement), assistant land classifier. Arthur H. Carhart, junior recreational engineer. Sylvander Simms, surveyor (draftsman), Edith R. Mosher (reinstatement), clerk.

DISTRICT 3.—Peter J. Wilson, Apache; Louis F. Cottam and Carroll R. Dwire, Carson; John A. Adams (reinstatement), John Edwin Cook, Homer E. German, and Roy H. Rice, Coconino; Arthur F. McDuffie (transfer) and Lyle B. Smith, Coronado; Lyman H. Taft, jr., Lincoln; Frederick H. Smith (reinstatement) and Raymond Earl Nafziger, Manzano; Richard S. Talioferro, Prescott; Roy Cummins and Andrew L. Rogers, jr., Sitgreaves; Michael J. Doran, Tonto; J. Earl Kintner, Fort Valley Experiment Station, forest rangers. Esther Leone Hunt, Lincoln; Martha M. Vance, Santa Fe, clerks (stenographers and typewriters). Katherine J. Lindsay, Carson; Anna Elizabeth Fraser, Datil, clerks (typewriters). Rafael J. Moya, Santa Fe, unskilled laborer.

DISTRICT 4.—George W. Walkup, Ashley; Orville Shipman, Boise; Henry W. May, Idaho; Joel W. Hiatt, Salmon; Willis B. Kauten, Sawtooth; Francis Moss, Targhee; Perry S. Ashdown, Wyoming, rangers. Maurine Kotter, Cache; Gustav H. Wiese, Fishlake; John A. O'Connell (reinstated), Humboldt; Stephen J. Humeston (by transfer from Indian Service), Idaho; Katherine M. Seelinger, Nevada; Duena Christensen, Sevier; Herbert L. Cox (reinstated), Uinta; Edne M. Hendricks, Mable L. Parker, and Clyde M. Gwin (reinstated), clerks (stenographers and typewriters). Cedric A. Martin and Marshall S. Wright (by transfer from Land Office), surveyors. Joseph W. Tite (reinstated), messenger boy.

DISTRICT 5.—August J. Mueller and Alvin E. Noren, California; William E. Ryan and Fred E. Walker, Cleveland; Franklin F. Noxon and Ernest M. Sutcliffe, Klamath; Harry Garrison, Modoc; Harold T. Williams, Plumas; Karl B. Holley, Santa Barbara; James Leroy Rudy, Sequoia; Lee H. Holland, Sierra; Edwyn H. Markel, Tahoe; Henry W. Atcheson, Mono, forest rangers. Clarence E. Dunston, Lassen, forest supervisor. A. E. Weislander, Lassen, forest examiner. Dagmar H. Vinther, clerk (stenographer and typewriter).

DISTRICT 6.—Charles W. Boyce, Columbia, forest assistant. Ernest C. Peachey, Crater; Stanley C. Walters, Oregon; George O. Langdon, Umatilla; Dick Sullivan, Washington; Floyd W. Kendall, Wenaha, forest rangers. Edith M. McCall, Umatilla, forest clerk. Henry P. Stinson, Seattle Laboratory, assistant in forest products. Luella Thompson Harbord, Alice E. Ure (reinstatement), clerks (stenographers and typewriters). Burt P. Kirkland, collaborator.

PROMOTED IN RANK.

DISTRICT 1.—Francis T. Carroll, Clearwater; Russell N. Cunningham, Nezperce; Guy W. Kitch, Kaniksu; Roy A. Phillips, Lolo; Paul A. Wohlen, Clearwater; Kenneth Wolfe, forest rangers to fire assistants. Charles B. Baker, Kootenai; Carlyn C. Delavan, Coeur d'Alene, forest examiners to fire assistants. Lloyd G. Hornby, Flathead; Frank J.

Jefferson, Clearwater, deputy forest supervisors to fire assistants. Anson B. Hodgins, Lolo; Clyde S. Webb, Flathead, scalers to lumbermen. Howard Drake, Cabinet, forest ranger, and Ulysses S. Swartz, timber cruiser, to lumbermen. Hartley A. Calkins and James B. Yule, draftsmen (surveyor) to assistant engineers. Walter J. Derrick, Madison, deputy supervisor to forest supervisor. Harry G. Ade, Madison, forest ranger to deputy forest supervisor. Adrian C. Adams, Jefferson, forest assistant to deputy forest supervisor.

DISTRICT 2.—Fred D. Mendenhall, surveyor-draftsman to district engineer. Fred B. Agee, Cochetopa; Ray Peck, Routt, deputy forest supervisors to forest supervisors. Gerald M. Hunter, Leadville, forest examiner to deputy forest supervisor. Alve L. Richey, Routt, forest ranger to deputy forest supervisor. Calvin A. Dahlgren, Superior, lumberman to forest supervisor.

DISTRICT 3.—William John Anderson, Lincoln; James H. Sizer, Tonto, deputy forest supervisors to forest supervisors. Albert W. Hendrix, forest ranger to surveyor.

DISTRICT 4.—James E. Scott, national forest inspector to supervisor.

DISTRICT 6.—Edward O. Blankenship, Chelan, forest ranger to deputy forest supervisor. Earl H. McArdle, Olympic, forest ranger to scaler.

DISTRICT 7.—Franklin W. Reed, assistant district forester to district forester; John W. Fox, examiner of surveys to assistant engineer; Harold L. Russell, White Top, forest examiner to forest supervisor.

CHANGE IN DESIGNATION.

RESEARCH.—Samuel T. Dana, assistant chief forest investigations to forest economist.

ENGINEERING.—John L. Cobbs, forest supervisor to forest examiner.

DISTRICT 2.—Wallace J. Pearce, Montezuma, deputy forest supervisor to forest examiner.

DISTRICT 3.—James W. Girdner, Coconino, national forest examiner to deputy forest supervisor. Marie A. Schach, map colorist to draftsman (copyist topographic). Arthur F. McDuffie, industrial examiner in forest products to forest ranger.

DISTRICT 4.—Vernon O. Maw, Ashley, clerk to forest ranger; Herbert G. McPheters, forest supervisor to national forest examiner; Frank J. Ryder, forest supervisor to national forest examiner.

DISTRICT 6.—Robert S. Wallace, Cascade, forest examiner to fire assistant. Cecil A. Lord, draftsman (topographic) to surveyor-draftsman.

RESIGNED.

FORESTER.—George A. Bentley, clerk.

GRAZING.—Rudolph L. Hensel, grazing examiner.

RESEARCH.—William H. Weber, industrial examiner in forest products.

LABORATORY.—Leslie R. Morris, Samuel Schwartz, James O. Bixby, Harry J. Rosenthal, James D. Studley, assistant engineers in forest products. Samuel Buttermann, assistant chemist; Charles R. Thomas, assistant in utilization of technical data; Benjamin J. Keyes, laboratory aid and engineer.

ACQUISITION.—George E. Marshall, timber cruiser; Robert J. Noyes, forest examiner; Harold G. Wood, national forest examiner.

DISTRICT 1.—James H. Hull, Coeur d'Alene; Ernest F. Jones, Kaniksu, forest examiners. William E. Lockhart and Harold E. Worsley, Bear-tooth; Arnold H. Lynn, Flathead; Arthur U. Stanley, Custer; John A. Morrow, Deerlodge; George E. Owen, Cabinet; John F. Kruse, Lolo, forest rangers. Nellie C. Short, Coeur d'Alene; Nellie Lee Saylor, St. Joe; Hazel Davenport, Kootenai, Helena Smiley, Gallatin; Ella Lovely, clerks (stenographers and typewriters). Antoine M. Caisse, St. Joe, forest clerk. Alice Vezina, Deerlodge, clerk (typewriter). Roscoe G. Willson, Madison, and Carl M. Stevens, forest supervisors. A. Price Townsend, Beaverhead, deputy forest supervisor.

DISTRICT 2.—Alva A. Simpson, Cochetopa; Theodore Shoemaker, jr., Pike, forest supervisors. Lula M. Lansing, Pike, clerk (stenographer and typewriter). John S. Amsden, Black Hills; Clair V. Cooke, Harney; Benjamin H. Lowe, Harney; Ford J. De Haven, Holy Cross; Ira W. Blundell, Leadville; James Real, jr., Montezuma; Don C. La Font, Rio Grande; Clyde L. Breckenridge, San Isabel; Robert E. Clark, jr., Shoshone; John A. Cox, Sopris; Thomas C. Parkinson, Uncompahgre, forest rangers. Charles H. Neel, draftsman (surveyor). Raymond S. Watrous, surveyor-draftsman. Marjorie E. Bunker, clerk (stenographer and typewriter).

DISTRICT 3.—Floyd R. Wigely, Apache; Ira K. Cummings, Carson; John B. Garland and J. Eugene Beatty, Coronado; Frank Angle, Crook; Frederick H. Smith, Jonathan L. Hughes and Raymond Earl Nafziger, Manzano, forest rangers. Mary C. Reilly, Carson; Esther Leone Hunt, Lincoln; Josephine C. Cunningham, Santa Fe, clerks (stenographers and typewriters). Luise C. Lieser, Datil, forest clerk. Raymond F. Grefe, Grand Canyon, deputy forest supervisor. Thomas Earl Wylder, Grand Canyon, forest supervisor. John W. Dorman, Coconino, scaler. Raymond Reed, Crook; Harry A. Snyder, Santa Fe; Henry A. Robinson, Tonto, unskilled laborers.

DISTRICT 4.—Carl B. Arentson, Wasatch, supervisor. Arthur W. Stevens, Minidoka; Theodore B. Nichols, grazing examiners. Seth B. Perry, Ashley; Virgil C. Moody, Boise; Edward R. Tuttle, Cache; George P. Low, Fillmore; Daniel K. Judd, Kaibab; Carl J. Kriley, Salmon; Virgil C. Lamb, Sawtooth; Albert DeLong, jr., and James G. Houston, Sevier; Walter C. Mellenthin, Targhee; John H. Woolstenhulme, Wasatch, rangers. John F. Fechsner, Uinta; Walter L. Priest, Wyo-

ming; Ruby Pearl Eichhoff and Jennie L. Beringer, clerks (stenographers and typewriters). William S. Silverthorn, messenger boy.

DISTRICT 5.—Oliver H. McElfresh and George H. Alen, Angeles; E. E. Jones, Eldorado; Glenburn H. Grow, Inyo; Allen J. Stanley, Lassen; Benjamin F. Tyler, Mono; Arthur C. Barrett, W. W. Douglas, and J. E. Nail, Plumas; William M. Clingan, Santa Barbara; Irven L. Wofford, Sequoia; John S. Thomas, Tahoe; Warren M. Watson, Stanislaus; Will K. Dodge, Trinity, forest rangers. Robert W. Ayres, Stanislaus, forest supervisor. John B. Carter, Stanislaus, scaler. William H. Gallaher, forest examiners. Alma S. Krans, clerk (stenographer and typewriter).

DISTRICT 6.—Harry W. DeVoe and Arthur L. Norgren, Columbia; William H. Goodrich, Colville; Harold A. Browning, Olympic; Herman N. Wallace, Oregon; James R. Davis, Wenaha, forest rangers. Marguerite B. Todd, Tongass, clerk (stenographer and typewriter). Richard H. Robertson, draftsman (surveyor). Emil F. Dallenbach, messenger boy. Thurman J. Starker, forest examiner.

With deep regret announcement is made of the death of Arthur E. Cole, forest ranger, San Juan, March 19; Silas W. Yarnall, forest ranger, Sopris, March 20; Robert Scott Bingham, forest ranger, Grand Canyon, March 30; Ethel T. Hoffman, clerk, Washington office, May 15; George E. King, clerk, Washington office, June 21.

SERVICE NOTES FOR JULY.

These notes contain instructions and necessary information to forest officers, and will therefore be carefully read and kept on file for reference.

LAW.

OFFICE OF THE SOLICITOR.

Law Cases in District 1—

United States *v.* George Behean : Grazing trespass, civil, Nezperce National Forest. Case closed upon payment by trespasser of \$227.52, value of forage consumed.

United States *v.* Durst & Havey Bros. : Timber trespass, civil, Helena National Forest. Case closed upon payment of \$132.50, value of timber cut.

United States *v.* Great Northern Railway Co., fire 31 (7-23-17) : Fire trespass, civil, Flathead National Forest. Complaint filed June 10, 1919 ; amount involved \$5,687.63.

United States *v.* Sam Houghlan, grazing trespass, civil, Custer National Forest. Case closed upon payment of \$71.50 by trespasser, value of forage consumed.

United States *v.* Thomas Loberg, grazing trespass, civil, Jefferson National Forest. Case closed upon payment by trespasser of \$3.16, value of forage consumed.

United States *v.* Milwaukee Lumber Co. and Fidelity & Deposit Co. of Maryland (Elizabeth Davis claim) : Proceedings on contract bond, St. Joe National Forest. Case argued in the United States District Court for Idaho at Coeur d'Alene on June 7 and June 11.

United States *v.* Northern Pacific Railway Co. : Suit for cancellation of patent No. 69511, Gallatin National Forest. Case argued in United States Circuit Court of Appeals in San Francisco on May 16, 1919.

United States *v.* Townsend Cattle Co., grazing trespass, civil, Helena National Forest. Case closed upon payment by trespasser of \$16.25, value of forage consumed.

Law Cases in District 2—

United States *v.* James W. Zimmerman : Grazing trespass, Sopris National Forest. Case referred to Department of Justice for suit to recover \$143.26, actual damages, and \$50 punitive damages. Before

suit was filed compromise offer of settlement was made in the sum of \$100, which was accepted, and case closed.

United States v. John Bebington: Grazing trespass, Harney National Forest. Judgment for \$150 damages and costs satisfied upon payment of damages without costs.

United States v. Nat Cole: Grazing trespass, Holy Cross National Forest. Case closed upon payment of \$12.50, actual damages.

United States v. Lloyd Edgerton: Grazing trespass, Holy Cross National Forest. Case closed upon payment of \$15, actual damages.

United States v. E. O. Emerson: Grazing trespass, Holy Cross National Forest. Case closed upon payment of \$9, actual damages.

United States v. Walter Richardson: Grazing trespass, Holy Cross National Forest. Case closed upon payment of \$31.98, actual damages.

United States v. Mrs. S. Vermillion: Grazing trespass, Pike National Forest. Case closed upon payment of \$4.20, actual damages.

United States v. Lewis Compton: Occupancy trespass, Harney National Forest. Case referred to Department of Justice, but before suit was filed trespasser made payment in the sum of \$9.46, covering charges for past occupancy, and took out a permit for ensuing year; case closed.

United States v. Chicago & Northwestern Railroad Co.: Fire trespass, Black Hills National Forest. Suit to recover \$3,460.95 damages. Answer filed. Case to come up for trial in September.

United States v. Hugh Cornett: Fire trespass, civil, Michigan National Forest. Bill of complaint to recover \$298.66 damages prepared and forwarded United States attorney.

United States v. Big Horn Land & Cattle Co.: Occupancy trespass, Hayden National Forest. Bill of complaint filed, asking for an injunction to prevent defendant company from using a reservoir acquired under act of March 3, 1891, as a private fishing preserve, and from excluding the public from fishing therein, and from maintaining trespass signs around the lake. The reservoir site covers two natural lakes.

United States v. Safe Investment Gold Mining Co.: Special, Black Hills National Forest. Suit to cancel, for fraud, patent to 1,118 acres of lode mining claims. Decision of the district court in favor of the defendant affirmed May 19, 1919, by Judge Booth, of Circuit Court of Appeals, Eighth Circuit; dissenting opinion filed by Judge Carland.

Law Cases in District 3—

United States v. D. L. Wooddell: Grazing trespass, Coronado National Forest. Case closed on payment of \$249, actual damages.

United States v. W. C. Thaxton: Grazing trespass, Lincoln National Forest. Case closed on payment of \$54.82, actual damages.

United States v. Babbitt & Aso: Grazing trespass, Prescott National Forest. Case closed on payment of \$16.64, actual damages.

United States v. Thomas McDonald: Grazing trespass, Manzano National Forest. Case closed on payment of \$56.58, actual damages.

United States *v.* Mrs. Elizabeth Gastelum : Grazing trespass, Coronado National Forest. Case closed on payment of \$7.76, actual damages.

United States *v.* Fred C. Purcell : Grazing trespass, Prescott National Forest. Case closed on payment of \$7.48, actual damages.

United States *v.* Joseph H. Ball : Grazing trespass, Coronado National Forest. Case closed on payment of \$38.50, actual damages.

United States *v.* T. C. Love : Grazing trespass, Lincoln National Forest. Case closed on payment of \$54, actual damages.

United States *v.* Bailey Cattle Co. : Grazing trespass, Coronado National Forest. Case closed on payment of \$774.30, actual, and \$100, punitive damages.

United States *v.* Manuel B. Otero : Grazing trespass, Datil National Forest. Case closed on payment of \$110, actual damages.

United States *v.* Sam B. Fambrough : Grazing trespass, Manzano National Forest. Case closed on payment of \$11.96, actual damages.

United States *v.* Thomas Dickie : Grazing trespass, Gila National Forest. Case closed on payment of \$26.10, actual damages.

United States *v.* Mrs. Sil Gamblin : Grazing trespass, Gila National Forest. Case closed on payment of \$152.10, actual damages.

United States *v.* W. W. Newman : Grazing trespass, Sitgreaves National Forest. Case closed on payment of \$43.20, actual, and \$100, punitive damages.

United States *v.* Babbitt Bros. & Van Deren : Grazing trespass, Coconino National Forest. Case closed on payment of \$2,683.20, actual damages.

United States *v.* Edwin D. Babbitt : Grazing trespass, Coconino National Forest. Case closed on payment of \$1,201.80, actual damages.

United States *v.* Babbitt & Dickinson : Grazing trespass, Coconino National Forest. Case closed on payment of \$335.28, actual damages.

United States *v.* Babbitt & Dickinson : Grazing trespass, Coconino National Forest. Case closed on payment of \$576.80, actual damages.

United States *v.* Rozel E. Burke : Grazing trespass, Coconino National Forest. Case closed on payment of \$30.80, actual damages.

United States *v.* Miguel and Rafael Egurrola : Grazing trespass, Coronado National Forest. Case closed on payment of \$91.20, actual, and \$25, punitive damages.

United States *v.* G. O. S. Cattle Co. : Timber trespass, Gila National Forest. Case closed on payment of \$15, actual damages.

United States *v.* J. W. Hathaway : Grazing trespass, Coronado National Forest. Case closed on payment of \$90, actual damages.

United States *v.* G. T. Holliman Estate : Grazing trespass, Gila-Apache National Forests. Case closed on payment of \$695.89, actual damages.

United States *v.* Arthur H. Noon : Grazing trespass, Coronado National Forest. Case closed on payment of \$394.80, actual, and \$50, punitive damages.

United States v. Joseph Piskorski: Grazing trespass, Coronado National Forest. Case closed on payment of \$1,684.80, actual damages.

United States v. Victor Sais: Grazing trespass, Manzano National Forest. Case closed on payment of \$90, actual damages.

United States v. Pittman Valley Land & Cattle Co.: Grazing trespass, Tusayan National Forest. Case closed on payment of \$18.40, actual damages.

United States v. Remisjio Torres: Grazing trespass, Lincoln National Forest. Case closed on payment of \$33.75, actual damages.

United States v. Spellmire & Lyons Sheep Co.: Grazing trespass, Prescott National Forest. Case closed on payment of \$15.21, actual damages.

United States v. J. R. Robinson: Grazing trespass, Coconino National Forest. Case closed on payment of \$25.34, actual damages.

United States v. Manuel Martinez: Grazing trespass, Coronado National Forest. Case closed on payment of \$22.70, actual damages.

United States v. Norton & Ferguson: Grazing trespass, Crook National Forest. Case closed on payment of \$300, actual, and \$100, punitive damages.

United States v. W. F. Purcell: Grazing trespass, Prescott National Forest. Case closed on payment of \$6.75, actual damages.

United States v. Francis Campbell & Co.: Grazing trespass, Prescott National Forest. Case closed on payment of \$24.52, actual damages.

United States v. Daniel W. Campbell: Grazing trespass, Prescott National Forest. Case closed on payment of \$12.38, actual damages.

United States v. James A. Carey: Grazing trespass, Manzano National Forest. Trial by jury. Verdict in favor of United States for \$236, actual damages.

United States v. J. F. Hutchinson: Fire trespass, Carson National Forest. Defendant arrested and gave bond for appearance at October term of court.

United States v. S. J. Hines: Occupancy trespass, Tonto National Forest. Case dismissed upon information that trespass had terminated, and of inability of defendant to satisfy judgment for damages.

United States v. Camillo Navarro & Francisco Martinez: Timber trespass, Crook National Forest. Plea of guilty by Martinez. Fined \$25 and case closed.

United States v. Camillo Castro: Timber trespass, Crook National Forest. Plea of guilty. Fined \$20 and case closed.

United States v. John Clary: Grazing trespass, Coronado National Forest. Petition for attachment for contempt, and order to show cause with corroborating affidavits prepared and submitted to United States attorney. A permanent injunction was issued September 27, 1915, and defendant has violated this by grazing stock on the forest without permit since April 1.

United States *v.* Santiago Boras: Grazing trespass, Prescott National Forest. Forwarded to Department of Justice with recommendation for criminal prosecution.

United States *v.* Pablo Gallegos: Grazing trespass, Prescott National Forest. Forwarded to Department of Justice with recommendation for criminal prosecution.

United States *v.* Samuel S. Candelario: Grazing trespass, Prescott National Forest. Forwarded to Department of Justice with recommendation for criminal prosecution.

United States *v.* Yldefenso Bezunartes: Grazing trespass, Prescott National Forest. Information filed charging violation of grazing regulations.

United States *v.* Lucio Arestequi: Grazing trespass, Prescott National Forest. Information filed charging violation of grazing regulations.

United States *v.* John Hamlin: Timber trespass, Gila National Forest. Case closed on payment of \$8, actual damages.

United States *v.* James T. Fryer: Grazing trespass, Gila National Forest. Case closed on payment of \$120.60, actual damages.

United States *v.* J. C. Moritz: Grazing trespass, Tusayan National Forest. Case closed on payment of \$9.84, actual damages.

United States *v.* Estenbun Munios: Grazing trespass, Tusayan National Forest. Information filed charging violation of grazing regulations.

United States *v.* William C. Bell: Grazing trespass, Apache National Forest. Permanent injunction issued effective July 15, 1919, and payment of \$261, value of pasturage.

United States *v.* James Parker: Grazing trespass, Coronado National Forest. Case closed on payment of \$1,305.75, actual damages.

Law Cases in District 4—

United States *v.* Chas. P. Nate: Grazing trespass, Caribou National Forest. Case closed on payment of \$11.64 actual damages.

United States *v.* Jose Sustacha: Grazing trespass, Humboldt National Forest. Case closed on payment of \$153.25, including \$100 punitive damages and \$53.25 actual damages.

United States *v.* Pete Itciana: Grazing trespass, Humboldt National Forest. Case closed on payment of \$298.90, the amount claimed, together with accrued costs.

United States *v.* Adolph Bissegger: Grazing trespass, Caribou National Forest. Case closed on payment of \$61.87 actual damages.

United States *v.* Edward F. Wadleigh: Grazing trespass, Wasatch National Forest. Case closed on payment of \$9.58 actual damages.

United States *v.* Frank Gardner: Grazing trespass, Fillmore National Forest. Case closed on payment of \$80.32 actual and \$35 punitive damages.

United States *v.* Wm. Alexander: Grazing trespass, Ashley National Forest. Abated by death of trespass. Dismissed April 28, 1919, and case closed.

United States *v.* Bedke Estate: Grazing trespass, Minidoka National Forest. Case closed on payment of \$952.80, total actual damages.

United States *v.* Manuel Erro: Grazing trespass, Humboldt National Forest. Case closed on payment of \$127.89 actual damages.

United States *v.* Varnell Rozsa and George Rogers: Timber trespass, Cache National Forest. Case closed on payment of \$18 (\$9 each) actual damages.

United States *v.* Ramon Archuletta, et al: Charged with murder of Forest Ranger Mellenthin, who attempted to arrest him as draft evader. At the trial held at Manti, Utah, Ignacio Martinez was sentenced to 15 years' hard labor, and Ramon Archuletta to life imprisonment.

Law Cases in District 5—

United States *v.* Frank Barnes: Grazing trespass, Lassen National Forest. Case closed upon payment of \$27.50 actual damages.

United States *v.* Ole Hesbol: Grazing trespass, Lassen National Forest. Case closed upon payment of \$42.10 actual damages.

United States *v.* Robert Potter: Grazing trespass, California National Forest. Defendant withdrew his plea of not guilty and entered a plea of guilty. Fined \$25 and costs.

United States *v.* San Pedro, Los Angeles & Salt Lake Railroad Co.: Fire trespass, Angeles National Forest. Case closed upon payment of \$390.69 actual damages.

United States *v.* Roy Mayes: Grazing trespass, Modoc National Forest. Case closed upon payment of \$135, actual damages.

Law Cases in District 6—

United States *v.* Phil Hirl: Grazing trespass, Umatilla National Forest. Closed April 17, 1919, on payment of \$93.81—\$43.81 actual and \$50 punitive damages.

United States *v.* F. L. Cundiff: Grazing trespass, Whitman National Forest. Closed March 31, 1919, on payment of \$188.10 actual damage.

United States *v.* William Scott: Grazing trespass, Umatilla National Forest. Closed April 4, 1919, on payment of \$48.60 actual and \$50 punitive damages.

United States *v.* Andrew Keyes: Grazing trespass, Colville National Forest. Closed May 14, 1919, on payment of \$8.10 actual damage.

United States *v.* P. F. Young: Grazing trespass, Minam National Forest. Closed March 31, 1919, on payment of \$12.20 actual damage.

United States *v.* Tom McIntyre: Grazing trespass, Umatilla National Forest. Closed April 11, 1919, on payment of \$63.75 actual and \$50 punitive damages.

United States *v.* American Falls Development Co. : Grazing trespass, Minam National Forest. Closed June 13, 1919, on payment of \$15 actual damage.

United States *v.* E. M. Crawford : Grazing trespass, Colville National Forest. Closed May 9, 1919, on payment of \$29.25 actual damage.

United States *v.* J. R. Thompson : Grazing trespass, Whitman National Forest. Closed June 16, 1919, on payment of \$5.25 actual damage.

United States *v.* A. E. Penney : Grazing trespass, criminal, Rainier National Forest. Defendant plead guilty April 24, 1919. Fined \$50.

United States *v.* Charles Dills : Grazing trespass, criminal, Malheur National Forest. Defendant plead guilty May 22, 1919. Fined \$50.

United States *v.* Maryott & Spencer Lumber Co. : Fire trespass, Olympic National Forest. Case closed April 25, 1919, on payment of \$1,358 damages.

United States *v.* Lindsay Bros. : Occupancy trespass, unlawful inclosure, Crater National Forest. Defendants plead guilty June 7, 1919. Fined \$329.55 each.

SERVICE PUBLICATIONS ISSUED.

Department Bulletin 749.—Production of Goats on Far Western Ranges.

Circular 124, Office of the Secretary.—A National Forest and Lumber Policy.

Circular 140, Office of the Secretary.—Lumber Export and our Forests.

Yearbook Extract 779.—Farm Woodlands and the War.

Unnumbered Publication.—Vacation Days in the Battlement National Forest.

Unnumbered Publication.—Vacation Trips in the Cochetopa National Forest.

Unnumbered Publication.—A Vacation Land of Lakes and Woods—The Superior National Forest.

Unnumbered Publication.—The Ouray Mountains of the Uncompahgre National Forest.

Unnumbered Publication.—Vacation Trips in Colorado's National Forests.

Unnumbered Publication.—Mountain Playgrounds of the Pike National Forest.

CUMULATIVE INDEX TO SERVICE NOTES AND ORDERS.

[July, 1919.]

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District 2; July (26).

Charge of murder, district 4; July (30).

Elimination of land from National Forest, district 4; July (30).

Issuance of patent, district 4; July (30).

Proceedings on contract bond, district 1; July (30).

Law cases:

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